

# MATÍAS DA SILVA

*AI & Cloud Platform Architect | Hybrid Cloud, AWS, Python, FastAPI*

Uruguay | Open to relocation to Spain | Remote / hybrid | occasional travel

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## PROFILE

Cloud and platform architect with 15+ years of experience in enterprise infrastructure and hybrid environments, with recent hands-on focus on AI platforms and cloud-based backend systems.

Designed and implemented AI-enabled architectures integrating VMware telemetry and AWS Bedrock, and developed a production-oriented LLM platform backend using modern async Python patterns. Strong background in resilience, observability, governance, and scalable platform design.

Focused on enabling secure, maintainable, and enterprise-ready AI adoption across hybrid and cloud environments.

## CORE SKILLS

- Python, FastAPI, REST APIs, PostgreSQL, Redis, Docker, async service patterns.
- AWS, Azure, VMware vSphere/vSAN/NSX, Omnisia Horizon, Veeam, hybrid architecture, HLD/LLD.
- Monitoring, logging, troubleshooting, RCA, capacity planning, cost governance, technical leadership.
- Terraform (AWS-focused training and lab implementation), PowerShell automation, AI platform patterns.

## PROFESSIONAL EXPERIENCE

### Cloud Architect | Willinn

Jan 2024 - Jun 2025

Montevideo, Uruguay

- Defined target-state hybrid architecture focused on resilience, observability, and cost governance across private and public cloud environments.
- Designed the high-level architecture of an AI-enabled diagnostic layer integrating VMware vSphere telemetry, VMware Aria Operations, and AWS Bedrock.
- Led production cluster deployments, large-scale migrations, and critical-incident mitigation/RCA with minimal service disruption.
- Delivered annual cost reductions above USD 120K across VMware, Citrix/Omnissa, and Microsoft optimization initiatives.

### Solutions Architect / Cloud Engineer | Zonamerica

May 2022 - Dec 2023

Montevideo, Uruguay

- Designed multitenant hybrid solutions combining VMware with Azure/AWS, Microsoft 365, and Veeam under strict SLA and compliance constraints.
- Defined governance standards and delivery patterns across environments, improving handover quality and operational consistency.
- Advanced infrastructure standardization through PowerShell automation and configuration governance, reducing drift and increasing repeatability.

### Technical Lead, Operations & Projects | 2017–2022

- Evolved into a hybrid role focused primarily on operations and project leadership, while remaining hands-on in implementations, escalations, and critical incident response in SLA-driven environments.

### Uruguay | 2010–2022 Cloud & Telecommunications Engineer | 2010–2017

- Worked in technical roles across cloud, infrastructure, and telecommunications, supporting implementations, troubleshooting, service continuity, and enterprise platform operations.

## SELECTED AI PLATFORM PROJECT

### LLM Chat Platform | Personal portfolio project

Dec 2025 – Present

Backend-first AI platform architecture

Built a portfolio-grade AI platform backend using Python, FastAPI, PostgreSQL, Redis, Docker, and async SQLAlchemy.

Implemented structured logging, configuration hardening, automated testing, and usage/cost analytics for production-oriented operation.

Extended the platform with multi-provider abstraction across two LLM backends, enabling portable integration patterns and clean provider decoupling.

Designed streaming-ready architecture and defined evolution toward agent-capable platform patterns and advanced orchestration use cases.

Focused on reliability, maintainability, and backend architecture over demo-oriented chatbot behavior.

### Software Fabric Architecture Blueprint

Software Fabric Architecture Blueprint

Designed a modular AI platform blueprint focused on multi-agent orchestration, portable LLM integration, and software delivery acceleration across hybrid and cloud environments.

Defined v2 architectural direction including tool-enabled agent workflows, governance boundaries, and reusable platform patterns for future implementation.

Explored architectural approaches for integrating multiple AI providers, backend services, and enterprise constraints in a unified platform model.

### Terraform AWS Platform Foundation | Personal project

2026 – Present

Designed and implemented a modular Terraform-based AWS foundation project, including remote state management with S3 backend and environment-based structure.

Applied Infrastructure as Code best practices: reusable modules, clean repo structure, state isolation, and version control hygiene.

Focused on building a production-oriented baseline for scalable AWS environments and future platform integration.

## CERTIFICATIONS & LEARNING

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VMCE v12 | VMware VCF Deploy & Manage and vSphere Design training

Machine Learning in Production | Machine Learning Specialization (Stanford Online | DeepLearning.AI / Coursera)

Generative AI with Large Language Models — DeepLearning.AI / Coursera (In Progress, 2026)

AWS Cloud Technical Essentials — Coursera (2026)

Terraform in AWS (Pearson / Coursera) — In Progress

Preparing for AWS Certified Solutions Architect – Associate

English: Professional working proficiency (C1 in progress)